

Lab Report : 4

Problem no.- 1: Write a java program to create a class named "BankedAccount". The class contains members such as the name of the account holder, address of the account holder, account number and balance. Add some member function such as generate unique account number, display information and deposit balance and withdraw amount , and change address.

Code :

```
import java.util.Scanner;

public class BankAccount {
    private String Name;
    private String address;
    private long accountNumber;
    private double balance;

    public BankAccount(String Name, String address) {
        this.Name = Name;
        this.address = address;
        this.accountNumber = 231311016;
        this.balance = 0.0;
    }

    public void display() {
        System.out.println("Account Holder: " + Name);
        System.out.println("Address: " + address);
        System.out.println("Account Number: " +
accountNumber);
        System.out.println("Balance: " + balance);
    }

    public void deposit(double amount) {
```

```

        if (amount > 0) {
            balance += amount;
            System.out.println("Deposit of " + amount +
" successful.");
        } else {
            System.out.println("Invalid amount for
deposit.");
        }
    }
    public void withdraw(double amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            System.out.println("Withdrawal of " + amount
+ " successful.");
        } else {
            System.out.println("Insufficient balance.");
        }
    }
    public void changeAddress(String newAddress) {
        address = newAddress;
        System.out.println("Address changed
successfully.");
    }
    public static void main(String[] args) {

        BankAccount account = new BankAccount("Afia
Islam.", "Rajshahi");
        account.display();
        account.deposit(1000);
        account.withdraw(500);
        account.display();
        account.changeAddress("Dhaka");
        account.display();
    }
}

```

Output :

```
Problems Javadoc Declaration Console X
<terminated> BankAccount [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Mar 2, 2024, 11:55:47 PM - 11:55:48)
Account Holder: Afia Islam.
Address: Rajshahi
Account Number: 231311016
Balance: 0.0
Deposit of 1000.0 successful.
Withdrawal of 500.0 successful.
Account Holder: Afia Islam.
Address: Rajshahi
Account Number: 231311016
Balance: 500.0
Address changed successfully.
Account Holder: Afia Islam.
Address: Dhaka
Account Number: 231311016
Balance: 500.0
```